

|           |    |       |          |
|-----------|----|-------|----------|
| APPROVED  | BY | CLASS | SUBCLASS |
|           |    |       |          |
| DRAFTSMAN |    |       |          |

JCS96-01A

| INITIAL FMN BINDING REGION         |                |             |                |
|------------------------------------|----------------|-------------|----------------|
| FMN                                | SECOND         | FMN         | SITE           |
| TGRNIIIVFYG                        | SQTGTAAEFA     | NRLSKD. AHR | YGMRGMSADP     |
| ... KATILYA                        | SETGRAQSAYA    | QQLGRLFRKA  | FDPRVLCMD.     |
| GTLMAKRV..                         | ... KATILYA    | KTLCIEFKHA  | FDAKAMSME.     |
| GOAMAKRV..                         | ... RATVLFA    | RDLATLFSYA  | FNTKVVCMD.     |
| RKVMASRV..                         | ... ARTGIFFG   | KMIQQL. GK  | .D. VADVHDI    |
| FLAV_ECOLI .....                   | ... MPKALIVYG  | ETIARELADA  | .GYEVDSRDA     |
|                                    |                |             | 38             |
| EYEDILADSS                         | LPEIDNALVV     | FCMATYGEGD  | PTDNAQDFYD     |
| ... EYDVVSL..                      | ... EHETLVL    | VVTSTFGNGD  | PPENGESFAA     |
| NOSE_BOVIN                         | ... EYDIVHL..  | VVTSTFGNGD  | PPENGEKFGC     |
| NOSE_RAT                           | ... QYKASTL..  | VVTSTFGNGD  | CPSNGQTLKK     |
| NOSM_MOUSE                         | ... AKSSKEDL.. | LGIPTWYGE   | ... AQCDWD     |
| FLAV_ECOLI                         | ... EAYDILL    | ... .LQDDFI | DF.FP...       |
| FLAV_DESVH                         | ... ASVEAGGLF  | EGFDLVL     | PL.FD...       |
|                                    |                |             | 76             |
| LOCATION OF REGULATORY LOOP INSERT |                |             |                |
| NSSPRPEQHK                         | SYKIRFNSVS     | CSDPLVSSWR  | RKRKESSNTD     |
| NS..VQEERK                         | SYKVRFNSVS     | SYSDSRKSSG  | DGPDLRDNFV     |
|                                    |                |             | ... .RELNHTFRY |
|                                    |                |             | EEIDFNGKLV     |
|                                    |                |             | EETGAQGRKV     |
|                                    |                |             | 88             |
| THIRD FMN SITE FLANKING LOOP       |                |             |                |
| AVFGLGNKT.                         | Y.EHFNAMGK     | YVDKRLEQLG  | AQR.I          |
| CVFGILGSRA.                        | Y.PHFCAF.A.    | AVDTRLEELG  | GER.L          |
| SVFGILGSRA.                        | Y.PHFCAFGH     | AVDTLLEELG  | GER.I          |
| AVFGLGSSM.                         | Y.PQFCAFAH     | DIDQKLSHLG  | ASQL           |
| ALFGCGDQED                         | YAEYYFCDALG    | TIRDIEPRG   | ATIV           |
| ACFGCGDSS.                         | Y.EYFCGAVD     | AIEEKLKNLG  | AEIV           |
|                                    |                |             | 120            |
| NCPR_HUMAN                         |                |             |                |
| NOSE_BOVIN                         |                |             |                |
| NOSE_RAT                           |                |             |                |
| NOSM_MOUSE                         |                |             |                |
| FLAV_ECOLI                         |                |             |                |
| FLAV_DESVH                         |                |             |                |

09393405 - 091693